

.I39  
ENT

v. 2 no. 7 1893



SB  
818  
I39  
ENT

Washington,

D. C.

# INDIAN MUSEUM NOTES

ISSUED BY THE TRUSTEES.

VOLUME II.—No. 7.

---



Published under the Authority of the Government of India, Revenue  
and Agricultural Department.

CALCUTTA :  
OFFICE OF THE SUPERINTENDENT OF GOVERNMENT PRINTING, INDIA.  
1893.

*Price Four Annas.*

U. S. NATIONAL MUSEUM



LIBRARY OF

Henry Guernsey Hubbard

AND

Eugene Amandus Schwarz



DONATED IN 1902

ACCESSION NO. 1775-63

CONTENTS OF VOLUME II.—No. 7.

Title page, list of contents, explanation of the plates, introductory notice and index to Volume II.



**PRESENTED**

BY

*The Trustees*

OF

**THE INDIAN MUSEUM.**



BRITISH MUSEUM

# INDIAN MUSEUM NOTES

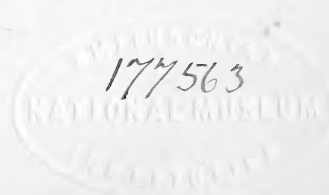
ISSUED BY THE TRUSTEES.

VOLUME II.—No. 7.



Published under the Authority of the Government of India, Revenue  
and Agricultural Department.

CALCUTTA:  
OFFICE OF THE SUPERINTENDENT OF GOVERNMENT PRINTING, INDIA.  
1891-93.



CALCUTTA :  
GOVERNMENT OF INDIA CENTRAL PRINTING OFFICE,  
8, HASTINGS STREET.





## CONTENTS OF VOLUME II.

---

	Page
Miscellaneous Notes from the Entomological Section, by E. C. Cotes . . .	1
A New Species of Tineidae, by Lord Walsingham, F.R.S. . . . .	9
The Baluchistan Melon Fly, by Mons. J. M. F. Bigot . . . . .	51
American Blight, by E. T. Atkinson, C.I.E. . . . .	52
Descriptions of New Coccidae, by W. M. Maskell . . . . .	59
A Darjiling Sâl Pest, by G. C. Dudgeon . . . . .	63
A New Psychid injurious to Sâl, by F. Moore . . . . .	67
The Wild Silk Insects of India, by E. C. Cotes . . . . .	69
White Insect Wax in India, by E. C. Cotes . . . . .	91
The Locusts of Bengal, Madras, Assam, and Bombay, by E. C. Cotes . . . .	99
The Economic Importance of Birds in India, by W. L. Selater . . . . .	117
The Methods adopted in Tunis for destroying Locusts ( <i>Reprint</i> ) . . . . .	122
Gas Treatment for Scale Insects ( <i>Extract</i> ) . . . . .	133
Paris-Green as an Insecticide for destroying Caterpillars ( <i>Reprint</i> ) . . . .	137
Insecticide Washes against Date Palm Scale ( <i>Reprint</i> ) . . . . .	143
A Conspectus of the Insects which affect Crops in India, by E. C. Cotes . . .	145



## EXPLANATION OF THE PLATES IN VOLUME II.

---

### PLATE I—

Fig. 1. *Aspidiotus theæ*, Maskell—

a.—Puparia on twig, nat. size; b.—Puparia ♂ & ♀, × 2; c.—Adult female, × 20; d.—Larva, × 100; e.—Antenna of larva, × 350.

Fig. 2. *Chionaspis theæ*, Maskell—

a.—Puparium ♀; b.—Puparium ♂; c.—Adult female.

Fig. 3. *Eriochiton cajani*, Maskell—

a.—Tests on twig, nat. size; b.—Female tests, dorsal and ventral aspects; c.—Male test, dorsal aspect; d.—Larva, dorsal aspect; e.—Antenna of larva; f.—Foot of larva; g.—Female 2nd stage, dorsal aspect; h.—Adult female, dorsal aspect; k.—Antenna of adult female; m.—Foot of adult female; n.—Marginal spines, spiracular spine, and tubular spinnerets of adult female.

### PLATE II—

Fig. 1. *Attacus atlas*,—(a) male; (b) larva; (c) cocoon.

„ 2. *Attacus edwardsii*, larva.

### PLATE III—

*Attacus cynthia*,—(a) female; (b) male; (c) cocoon.

### PLATE IV—

*Actias selene*,—(a) female; (b) male; (c) cocoon; (d) larva.

### PLATE V—

*Actias leto*,—(a) male; (b) female; (c) cocoon.

### PLATE VI—

*Antheræa frithii*,—(a) female; (b) male; (c) and (d) cocoons.

### PLATE VII—

Fig. 1. *Antheræa helferi*,—(a) female; (b) male. These figures are somewhat too dark.

„ 2. *Antheræa pernyi*,—(a) male; (b) cocoon, after Guérin Méneville.

### PLATE VIII—

*Antheræa yamamai*,—(a) female; (b) male; (c) cocoon, after Westmaas.

### PLATE IX—

*Antheræa roylei*,—(a) male; (b) female; (c) cocoon; (d) larva; (e) parasitized cocoon cut across to show the cells made by the Ichneumonid grubs which have destroyed the chrysalis.

### PLATE X—

Fig. 1. *Cricula trifenestrata*,—(a) male; (b) female; (c) cocoon; (d) larva.

„ 2. *Cricula drepanoides*.

„ 3. *Ocinara lactea*,—(a) male; (b) larva, after Hutton.

### PLATE XI—

*Rhodia newara*,—(a) female; (b) male; (c) cocoon.

### PLATE XII—

Fig. 1. *Salassa lola*,—(a) male; (b) female; (c) larva.

„ 2. *Salassa royi*,—(a) female (b) male.

### PLATE XIII—

Fig. 1. *Loepa miranda*.

„ 2. *Saturnia grotei*,—(a) female; (b) male.

„ 3. *Neoris huttoni*,—(a) female; (b) male.

„ 4. *Saturnia stoliczka*.

PLATE XIV—

- Fig. 1. *Caligula simla*,—(a) female ; (b) male.  
 „ 2. *Caligula thibeta*.  
 „ 3. *Rinaca zuleika*.

PLATE XV—

- Fig. 1. *Brahmaea certhia*.  
 „ 2. *Theophila affinis*,—(a) moth ; (b) larva ; (c) cocoon.  
 „ 3. *Theophila huttoni*, larva.  
 „ 4. *Theophila bengalensis*, larva.  
 „ 5. *Trilocha varians*,—(a) moth ; (b) larva ; (c) cocoon.

PLATE XVI—

- Fig. 1. *Ceroplastes ceriferus* ; twig with three wax-covered females, nat. size.  
 „ 2. *Phromnia marginella*,—(a) imago, natural size ; (b) and (c) larvæ, natural size and enlarged, in each case divested of the flocculent matter with which they are ordinarily covered ; (d) gland like organs situated at the extremity of the abdomen in the larva, enlarged ; (e) leaf covered with dried larval skins as they appear before being divested of their flocculent coverings, nat. size ; (f) leaf covered with the sugary secretion emitted by the larvæ, nat. size.

PLATE XVII—

- Acridium succinctum* Linn., nat-size.

## NOTICE.

---

The serial *Indian Museum Notes*, issued by the Trustees of the Indian Museum, Calcutta, under the authority of the Government of India, Revenue and Agricultural Department, is to take the place of *Notes on Economic Entomology*, of which two numbers have appeared. For the views expressed, the authors of the respective notes are alone responsible.

The parts of the serial are published from time to time as materials accumulate. Communications are invited; they should be written on one side only of the paper and addressed to—

THE EDITOR,

INDIAN MUSEUM NOTES,

*Calcutta.*

Correspondence connected with Economic Entomology should be accompanied by specimens of the insects to which reference is made. Caterpillars, grubs, and other soft-bodied insects can be sent in alcohol; chrysalids and cocoons, alive, and packed lightly in leaves or grass; other insects, dried and pinned, or wrapped in soft paper. Live insects should be sent when there is a reasonable probability of their surviving the journey. Caterpillars, grubs, and other immature insects can often be only approximately determined; they should therefore, where possible, be accompanied by specimens of the mature insects into which they transform; when this is not possible, they should still be sent, as they can always be determined approximately, and uncertainty must necessarily arise in discussing insects when actual reference to the specimens cannot be made.

Insects forwarded for determination should in all cases be accompanied by a detailed report showing precisely in what their economic importance consists.

CALCUTTA ; }  
5th June 1893. }



- Acarus coffæ*, 173.  
*Acarus translucens*, 173.  
*Achæa melicerte*, 159.  
*Acheta*, sp., 172.  
*Achræa grisella*, 31.  
*Acridium æruginosum*, 27, 103, 169.  
*Acridium melanocorne*, 27, 103, 169.  
*Acridium paranense*, 115.  
*Acridium peregrinum*, 1, 28, 99, 169.  
*Acridium succinctum*, 10, 28, 100, 110, 169.  
*Actias leto*, 76.  
*Actias selene*, 74.  
*Ægosoma lacertosum*, 12, 154.  
*Æthriostoma undulata*, 148.  
*Agrotis segetum*, 7, 161.  
*Agrotis suffusa*, 6, 161.  
*Aloa lactinea*, 158.  
 American Blight, 52.  
*Ancyclonycha* sp., 149.  
 Anjoumois grain moth, 4.  
*Ankphutta*, 10.  
*Anomala viridis*, 39.  
*Antheræa andamana*, 80.  
*Antheræa cingalesa*, 80.  
*Antheræa fraterna*, 80.  
*Antheræa frithii*, 76.  
*Antheræa helferi*, 77.  
*Antheræa pernyi*, 70, 78.  
*Antheræa perrotteii*, 80.  
*Antheræa roylei*, 70, 77.  
*Antheræa simplicia*, 80.  
*Antheræa yamamai*, 70, 78.  
*Anthomyia peshawarensis*, 165.  
*Anthomyza, coffæ*, 165.  
*Aphelinus theæ*, 155.  
*Aphis brassicæ*, 167.  
*Aphis coffæ*, 167.  
*Apinis concinna*, 165.  
*Apion strobilanthei*, 32, 151.  
*Apis dorsata*, 39.  
*Apis mellifica*, 31.  
 Apple scale, 13.  
 Areca palm Coccid, 17.  
*Arhines destructor*, 151.  
*Aristhala sikkima*, 89.  
*Aristhala thwaitesii*, 89.  
*Artaxa limbata*, 38, 159.  
*Aspidiotus destructor*, 168.  
*Aspidiotus flavescens*, 168.  
*Aspidiotus theæ*, 59, 168.  
*Aspidiotus transparens*, 168.  
*Aspidomorpha militaris*, 154.  
 Assam locusts, 104.  
*Astycus lateralis*, 151.  
*Atractomorpha crenulata*, 171.  
*Attacus atlas*, 71.  
*Attacus cynthia*, 70, 73.  
*Attacus edwardsii*, 73.  
*Aukphutta*, 171.  
*Aulacophora abdominalis*, 154.  
*Babula grotei*, 12, 157.  
 Bag worms, 157.  
*Bahadura*, 160.  
 Bamboo insect, 150.  
*Batocera rubus*, 153.  
*Batocera* sp., 153.  
*Belionota scutellaris*, 149.  
 Bengal locusts, 99.  
*Bhaunri*, 3, 162.  
*Bherwa*, 172.  
*Bhoma*, 166.  
*Bhunga*, 10, 171.  
*Bhur*, 164.  
 Blister blight, 167.  
*Boarmia leucostigmata*, 162.  
*Boarmia zeylanicaria*, 162.  
 Bollworm, 160.  
 Bombay locusts, 105.  
 Boring caterpillars, 44.  
*Bostrychus*, sp., 150.  
*Brahmæa certhia*, 85.  
*Brahmæa conchifera*, 85.  
*Brahmæa rufescens*, 85.  
*Brahmæa wallichii*, 85.  
*Brahmæa whitei*, 85.  
*Bruchus chinensis*, 152.  
*Bruchus emarginatus*, 152.  
*Bruchus* sp., 153.  
 Budaon pests, 46.  
*Burma chaudali*, 154.  
*Cænophrada anobioides*, 150.  
*Calandra* sp., 151.  
*Calandra oryzæ*, 27, 150.  
*Caligula simla*, 84.  
*Caligula thibeta*, 84.  
*Caloptenus caliginosus*, 110, 169.  
*Caloptenus erubescens*, 110, 169.  
*Caloptenus italicus*, 112, 113.  
*Caloptenus spretus*, 112.  
*Calosoma orientale*, 148.  
*Canthecona furcellata*, 165.  
*Carpomyia pardalina*, 25, 51, 165.  
*Caryoborus gonagra*, 153.  
 Casuarina pest, 45.  
*Catantops axillaris*, 170.  
*Catantops indicus*, 170.  
*Cecidomyia oryzæ*, 164.  
*Cephaleta purpureiventris*, 155.  
*Cerambyx vatica*, 153.  
*Cerataphis* sp., 167.  
*Ceroplastes ceriferus*, 91, 93.  
*Ceylonia theæcola*, 35, 167.  
*Chatocnemis basalis*, 154.  
*Chalcis criculæ*, 45, 155.  
*Chalcis euplæa*, 155.  
*Chalcis responsata*, 45.  
*Chartocerus musciformis*, 155.  
 Cheroot weevil, 150.  
*Chilo oryzæellus*, 19, 163.  
*Chilocorus circumdatus*, 154.  
*Chionaspis* sp., 60.

- Chionaspis aspidistra*, 17, 168.  
*Chionaspis thea*, 168.  
*Chlorita flavescens*, 167.  
*Chrotogonus* sp., 46.  
*Chrysobothris sex-notata*, 149.  
*Chrysopsis dispar*, 10.  
*Cicada limbata*, 96.  
*Cicindela sexpunctata*, 148.  
*Cigale portelaine*, 96.  
*Cirrhopilus coccivorus*, 155.  
*Coccus ceriferus*, 91.  
Cockchafer larvæ, 149.  
*Cælosterna scabrata*, 153.  
Coffee Dynastinid, 38.  
Cootee, 150.  
*Cotesia flavipes*, 155.  
Cotton Buprestid, 33.  
Cotton pests, 32.  
Cotton pest, 44.  
*Cricula drepanoides*, 81.  
*Cricula trifenestrata*, 70, 80.  
*Crotogonus* sp., 46, 170.  
*Cryptorhynchus mangifera*, 151.  
*Curculionidæ* larvæ, 151.  
*Curuminga*, 153.  
Cut worms, 5.  
*Cylas turcipennis*, 151.  
*Cyrtacanthacris ranacea*, 110, 170.  
*Cyrtotrachelus dux*, 39, 151.  
*Dactylopius adonidum*, 169.  
*Dactylopius cocotis*, 169.  
*Dacus ferrugineus*, 165.  
*Dasychira thwaitesii*, 158.  
Date palm scale, 143.  
*Depressaria gossypiella*, 163.  
*Dermestes vulpinus*, 148.  
*Desmidophorus hebes*, 151.  
*Dhaberi*, 97.  
*Dhosah*, 162.  
*Diapromorpha melanopus*, 154.  
*Diapus impressus*, 152.  
*Diatræa saccharalis*, 2, 162.  
*Dinoderus* sp., 150.  
*Disphinctus humeralis*, 166.  
*Dora*, 7.  
*Dragana pansalis*, 162.  
*Drosophila apicata*, 36, 165.  
*Dysdercus cingulatus*, 33, 44, 166.  
*Dysdercus suturellus*, 33.  
Economic Birds, 117.  
*Elachista coffeella*, 164.  
*Encyrtus nietneri*, 155.  
*Encyrtus paradisicus*, 155.  
*Epacromia dorsalis*, 104, 171.  
*Epicauta rouxi*, 150.  
*Epicauta tenuicollis*, 150.  
*Epilachna vigintioctopunctata*, 45, 154.  
*Epithecia coffearia*, 162.  
*Eriocerus pela*, 91.  
*Eriochiton cajani*, 61, 168.  
*Eudioptes indica*, 162.  
*Eumeta crameri*, 157.  
*Eumeta sikkima*, 63, 67, 157.  
*Euprepocnemis* sp., 27, 103.  
*Euprepocnemis bramina*, 171.  
*Euproctis virguncula*, 159.  
*Flata conspersa*, 39, 166.  
*Flata limbata*, 96.  
*Flata nigricornis*, 96.  
Fruit tree Aphid, 40.  
*Fulgora marginella*, 95.  
*Fulgora pallida*, 96.  
*Galleriomorpha lichenoides*, 160.  
*Gandhi*, 166.  
*Gangara thyrsis*, 156.  
*Gascooroominga*, 149.  
Gas treatment, 133.  
*Gas trophilus equi*, 37.  
*Gelechia cerealella*, 4, 164.  
*Ghoon*, 150.  
*Gibbium scotias*, 150.  
*Gongali purugu*, 158.  
*Govisana bipars*, 157.  
*Goyanmessa*, 166.  
*Gracilaria coffeifoliella*, 163.  
*Gracilaria theivora*, 49, 164.  
Granary pest, 36.  
Grape fly, 36.  
Green fly blight, 167.  
Green scale bug, 168.  
*Gryllotalpa* sp., 172.  
*Gudhiya*, 47.  
*Haltica nigro-fusca*, 154.  
*Hanisa subnotata*, 89.  
*Harnipok*, 24, 160.  
*Heliothis armigera*, 24, 47, 160.  
*Helopeltis antonii*, 166.  
*Helopeltis febriculosa*, 166.  
*Helopeltis theiovora*, 43, 166.  
*Heteropternis* sp., 171.  
*Hieroglyphus colesiana*, 30.  
*Hieroglyphus furcifer*, 30, 171.  
*Hispa ænescens*, 31, 154.  
Hooghly pests, 46.  
Horse Cæstrid, 37.  
*Idiocerus niveosparsus*, 167.  
Indigo blight, 18.  
Insecticide washes, 143.  
Insectivorous birds, 119.  
*Jhanga*, 166.  
*Janga purugu*, 159.  
*Kajra*, 160.  
*Kakotiphoring*, 105, 171.  
*Kal*, 154.  
*Kala mundi*, 46, 161.  
*Kandula purugu*, 161.  
*Katforing*, 170.  
Kerosine emulsion, 26.  
*Kerouna*, 161.  
*Khapedi*, 171.  
*Kumwah*, 161.  
Lablab Plume Moth, 20.



- Lachnosterna impressa*, 149.  
*Lachnosterna pinguis*, 149.  
*Lachnus fuliginosus*, 41, 167.  
*Lagerstræmia Psychid*, 12.  
*Lampides elpis*, 156.  
*Laphygma exigua*, 10, 160.  
*Lasioderma testaceum*, 29, 150.  
*Lecanium acuminatum*, 168.  
*Lecanium coffeæ*, 168.  
*Lecanium nigrum*, 168.  
*Lecanium viride*, 168.  
*Leda*, 160.  
*Ledapoka*, 161.  
*Leki*, 172.  
*Leptocoris acuta*, 35, 166.  
*Leucania sp.*, 47.  
*Leucania extranea*, 5, 10, 160.  
*Leucania loreyi*, 160.  
*Leucania separata*, 10.  
*Lhi*, 172.  
*Locusta coffeæ*, 172.  
*Locusta migratoria*, 102.  
 Locusts in Tunis, 122.  
*Loepa katinka*, 82.  
*Loepa miranda*, 82.  
*Loepa sikkima*, 82.  
*Loepa sivalica*, 82.  
*Lohita grandis*, 166.  
*Lucanus lunifer*, 148.  
*Lucanus mearesi*, 39.  
*Lurka*, 160.  
*Madras locusts*, 27, 101.  
*Magiria robusta*, 16, 163.  
 Maize stalk borer, 2.  
*Majera*, 162.  
*Mamestra papaverorum*, 160.  
*Mancipium nepalensis*, 46, 156.  
*Mandaruah*, 162.  
 Mango Liparid, 38.  
 Mango maggots, 38.  
*Marietta leopardina*, 155.  
*Maruca sp.*, 10, 38, 163.  
*Masicera grandis*, 164.  
*Mazra*, 31.  
 Mealy bug, 168.  
*Mecopoda sp.*, 27, 103, 171.  
*Mekada*, 47.  
 Melon fly, 24, 51.  
*Micromus australis*, 173.  
*Miresa cotesi*, 37.  
*Mohua*, 166.  
 Monghyr pests, 47.  
*Monjikila purugu*, 162.  
*Monohamus soongna*, 153.  
 Mosquito blight, 43, 166.  
*Mudaria cornifrons*, 160.  
*Mudhwa*, 154.  
*Munju-vandu*, 166.  
*Nagara chandra*, 7.  
 Nagpur pests, 47.  
*Narkote*, 162.  
*Narosa conspersa*, 158.  
*Natada velutina*, 158.  
*Neocerambyx holosericeus*, 12, 153.  
*Neoris huttoni*, 83.  
*Neoris shadulla*, 83.  
*Nephopteryx punicaella*, 28, 163.  
*Nephopteryx sagittiferella*, 21, 163.  
*Noeludaram purugu*, 159.  
 Oak silkworms, 78.  
*Ochropleura flammatra*, 6, 161.  
*Ocinara comma*, 89.  
*Ocinara diaphana*, 89.  
*Ocinara lactea*, 88.  
*Ocinara lida*, 88.  
*Ocinara moorei*, 88.  
*Edalus*, 104.  
*Edalus marmoratus*, 10, 170.  
*Edipoda tatarica*, 112.  
*Edipoda vastator*, 112.  
*Estrus bengalensis*, 37.  
*Olene mendosa*, 43, 159.  
*Opatrum depressum*, 150.  
 Orange beetle, 154.  
*Orgyia ceylanica*, 159.  
 Orissa pests, 46.  
*Oryctes rhinoceros*, 9, 149.  
*Oscinis theæ*, 165.  
*Oxya furcifera*, 110, 170.  
*Oxya velox*, 104, 170.  
*Oxycarenus lugubris*, 32, 166.  
*Pachytylus cinerascens*, 27, 103, 104, 112, 170.  
*Pachytylus migratorius*, 103, 111.  
*Pachytylus pardalinus*, 112.  
*Pachytylus stridulus*, 112.  
 Paddy blight, 28.  
 Paddy caterpillars, 42.  
 Paddy pest, 42.  
 Padi borer, 19.  
*Palanbyoo*, 163.  
 Palm weevil, 8.  
*Palu-pok*, 158.  
*Pamari*, 154.  
*Pandemis menciana*, 163.  
*Papilio erithonius*, 156.  
*Paraponyx oryzalis*, 163.  
*Parasa sp.*, 158.  
*Parasa lepida*, 158.  
 Paris-green, 137.  
*Paruli*, 154.  
 Patna pests, 47.  
*Pavali poka*, 154.  
*Pemphigus cinchonæ*, 167.  
*Penki purugu*, 161.  
*Pezotettix alpina*, 112.  
*Phassus purpureus*, 157.  
*Phora cleghorni*, 165.  
*Phromnia marginella*, 92, 95.  
*Phymatæus miliaris*, 38, 172.  
*Phymatæus punctatus*, 171.  
*Physopelta schlaubuschii*, 166.

- Pimpla punctator*, 155.  
*Pityogenes scitus*, 152.  
*Platydictylus sexspinosus*, 152.  
*Platygyaster oryzae*, 156.  
*Plocederus obesus*, 153.  
*Plocederus pedestris*, 153.  
*Plusia nigrisigna*, 161.  
*Pæcilocera hieroglyphica*, 10, 171.  
*Pæcilocera picta*, 171.  
*Polygraphus* sp., 152.  
*Polytela gloriosa*, 160.  
Pomegranate moth, 28.  
Pomelo moth, 21.  
Poplar borer, 14.  
*Primosticta fenestrata*, 89.  
*Prodenia littoralis*, 160.  
*Pseudococcus adonidum*, 168.  
*Pseudo-pulvinaria sikkimensis*, 169.  
*Psiloptera fastuosa*, 45, 149.  
*Psylla cistellata*, 167.  
*Psylla isitis*, 18, 167.  
*Pteromalus oryzae*, 155.  
Red spider, 173.  
*Reotha*, 162.  
Rhinoceros beetle, 9.  
*Rhizopertha pusilla*, 27, 150.  
*Rhodia newara*, 81.  
*Rhynchophorus ferrugineus*, 8, 151.  
Rice caterpillars, 42.  
Rice Hispa, 31, 154.  
Rice pest, 43.  
Rice sapper, 35, 166.  
*Rinaca zuleika*, 84.  
Ringer, 161.  
*Rivellia persicae*, 38, 165.  
*Salassa lola*, 83.  
*Salassa royi*, 83.  
Sâl caterpillars, 44.  
Sâl pest, 63.  
*Sanka poka*, 31, 154.  
*Sanki*, 154.  
*Saturnia anna*, 82.  
*Saturnia cidosa*, 81.  
*Saturnia grotei*, 82.  
*Saturnia hockingii*, 82.  
*Saturnia lindia*, 82.  
*Saturnia pyretorum*, 82.  
*Saturnia stoliczkana*, 81.  
*Schizodactylus monstruosus*, 172.  
*Schizoneura lanigera*, 13, 52, 167.  
*Scutellista cyanea*, 155.  
*Scymnus rotundatus*, 154.  
*Setomorpha rutella*, 10, 164.  
*Shanki poka*, 31, 154.  
*Silai*, 3, 162.  
*Silvanus surinamensis*, 27, 148.  
*Sinoxylon* sp., 150.  
*Sipalus granulatus*, 151.  
*Sitones* sp., 151.  
*Solenopsis gemminata*, 42, 155.  
*Spalyria minor*, 159.  
*Sphaenophorus planipennis*, 151.  
*Sphecia ommatiformis*, 15, 156.  
*Sphenarches caffer*, 20, 163.  
*Sphenoptera gossypii*, 33, 149.  
*Spilosoma* sp., 158.  
*Spilosoma suffusa*, 47, 158.  
*Stachia geometrica*, 165.  
*Stauronotus cruciatus*, 113.  
*Stauronotus maroccanus*, 114.  
*Stauronotus vastator*, 112.  
*Stauropus alternus*, 158.  
Stored sorghum pests, 27.  
*Strobilanthus weevil*, 32.  
*Stromatium asperulum*, 11, 154.  
*Stromatium barbatum*, 12, 153.  
*Suastus gremius*, 156.  
Suree, 161.  
*Sutta thegulu*, 172.  
*Syrphus nietneri*, 164.  
*Syrphus splendens*, 164.  
Tea Aphid, 34.  
Tea Limacodid, 36.  
Tea pest, 43.  
Teak borers, 45.  
*Teindoung-bo*, 163.  
*Tenebrionid larvæ*, 150.  
*Tephritis onopordinus*, 25.  
*Termes fatalis*, 172.  
*Termes taprobanes*, 172.  
*Tetranychus bioculatus*, 173.  
*Theophila affinis*, 86.  
*Theophila bengalensis*, 86.  
*Theophila huttoni*, 70, 85.  
*Theophila religiosa*, 86.  
*Theophila sherwilli*, 87.  
*Thrips* sp., 172.  
*Tinea pellionella*, 10, 164.  
Toon twig borer, 16.  
*Tortrix coffearia*, 163.  
Transparent scaled bark louse, 168.  
*Tribolium ferrugineum*, 150.  
*Trichia exigua*, 159.  
*Trilocha albicollis*, 88.  
*Trilocha cervina*, 88.  
*Trilocha varians*, 87.  
*Trogoderma* sp., 148.  
*Trogosita mauritanica*, 148.  
*Trycolyga bombycis*, 164.  
*Trypodendron domesticum*, 152.  
*Trypodendron signatum*, 152.  
*Tryxalis* sp., 30.  
*Tryxalis turrita*, 27, 103, 104, 171.  
*Typhlodromus carinatus*, 173.  
Umballa pests, 45.  
Vandu, 166.  
*Vanga purugu*, 162.  
*Vespa magnifica*, 39.  
*Virachola isocrates*, 156.  
White Insect Wax, 91.  
*Xyleborus perforans*, 152.  
*Xylotrechus quadrupes*, 153.  
*Xylotrupes gideon*, 38.  
Yellow bark louse, 168.  
Yellow tea mite, 173.  
*Zeuzera coffeae*, 157.







# Indian Museum Notes

v. 2 no. 7 1893

SMITHSONIAN INSTITUTION LIBRARIES



3 9088 01570 6666